Kelvion

Kelvion Shell & Tube Single ComFin

COMPACT & STRONG
THE SPACE SAVING SOLUTION

DESIGN & FUNCTION

Kelvion Shell & Tube Single ComFin combines the advantages of a shell & tube heat exchanger with a compact fin design, resulting in a highly efficient and space-saving solution.
You can choose a standardized or customized design to best suit your application.
Single tubes and special fins are built together in one robust cooler bundle. This construction, together with optimized tolerances, produces a highly efficient and compact heat exchanger – up to 75% smaller than a conventional tubular heat exchanger with plain tubes.

This heat exchanger type offers major advantages for applications where oil or air has to be cooled. The enlarged surface on the shell side compensates the lower heat transfer value of such media.

BENEFITS

- **EXCELLENT TRACK RECORD**
- **PROVEN COOLER CONCEPT**
- **MODULAR DESIGN**
- **GLOBAL PRESENCE AND SERVICE NETWORK**
- **GOOD RESISTANCE TO VIBRATIONS & SHOCKS**
- **EASY INSPECTION / CLEANING ON TUBE SIDE**
- **LOW PRESSURE DROP ON OIL SIDE**
- **DOUBLE O-RING CONSTRUCTION: NO INTERMIXING OF FLUIDS**

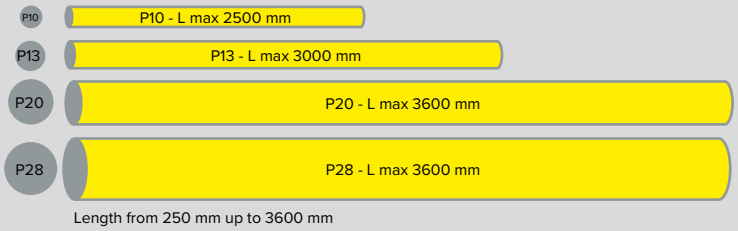
PRODUCT TYPES

S&T Single ComFin P - Series	S&T Single ComFin N - Series	S&T Single ComFin	S&T Single ComFin
Standardized shell design	Customized shell design	Special solutions	Insert Bundles
• **PF Type** • PFR Type	• NF Type		

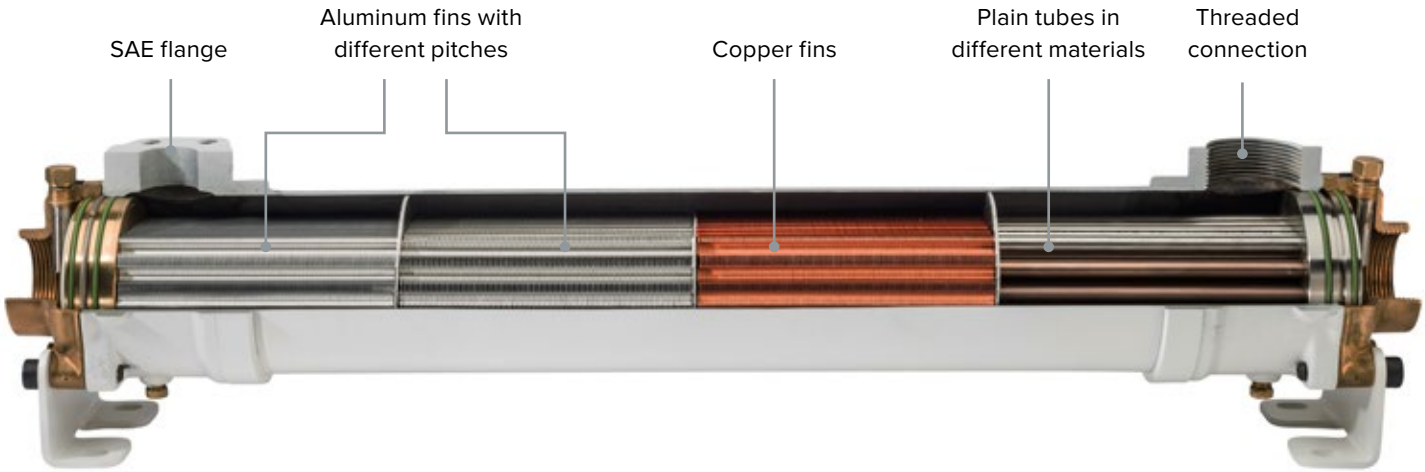
S&T SINGLE COMFIN - PF

The PF Type, which combines a P Type shell with a compact fin bundle, is the standardized, short-delivery product for various oil and air cooling applications.
The heat exchanger shell consists of a steel pipe with cast end pieces at each side, which are bonded together mechanically.
A non-welded mechanical connection provides accurate tolerances. The shells are resistant to pressures up to 25 bar.
We can provide different shell diameters and lengths to suit a wide range of design requirements.

PF	
P = Standardized shell +	F = Compact Fin Design Bundle



PF TYPE | OPTIONS



Materials	
Tubes	Copper nickel 90/10, copper nickel 70/30 or stainless steel; optional inside phenolic coating
Covers	Cast Iron or bronze/brass with anodes
Shell	Nodular casting / carbon steel
Tube sheets	Seawater-resistant brass, carbon steel or stainless steel
O-ring	Viton or Neoprene
Fins	Aluminum, copper

Design Data	Shell side	Tube side
Design Pressure	up to 25 bar(g)	10 bar(g)
Design temperature	up to 200 °C	up to 110 °C

Media	
Shell side	Oil (lube, fuel, hydraulic), air
Tube side	Water (closed circuit water, clean water, open or sea water)